05/21/2008

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NOTICE OF ALLOWANCE AND FEE(S) DUE

78018 7590

MDIP LLC POST OFFICE BOX 2630

MONTGOMERY VILLAGE, MD 20886-2630

EXAMINER				
JOIKE, MICHELE K				
ART UNIT	PAPER NUMBER			

1636

DATE MAILED: 05/21/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,036	01/11/2001	Ekkehard Leberer	190809-14290400	8288

TITLE OF INVENTION: POTASSIUM CHANNEL MUTANTS OF THE YEAST SACCHAROMYCES CEREVISIAE AND THEIR USE FOR

SCREENING EUKARYOTIC POTASSIUM CHANNELS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	08/21/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

indicated unless correcte maintenance fee notificat	d below or directed oth tions.	nerwise in Block 1, by (a) specifying a new co	orresp	ondence address; ar	nd/or (b) indicating a sep	t correspondence address as parate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address]	Fee(s papei	s) Transmittal. This c rs. Each additional p	ertificate cannot be used	or domestic mailings of the for any other accompanying ent or formal drawing, must
78018	7590 05/21	/2008			Certifi	cate of Mailing or Trans	smission
MDIP LLC POST OFFICE BOX 2630 MONTGOMERY VILLAGE, MD 20886-2630]	I here State addre trans	eby certify that this I	Fee(s) Transmittal is bein	g deposited with the United est class mail in an envelope above, or being facsimile date indicated below.
			ĺ				(Depositor's name)
			İ				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	ГOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.
09/758,036	01/11/2001	•	Ekkehard Leberer		•	190809-14290400	8288
TITLE OF INVENTIO			THE YEAST SAC	СНА	ROMYCES CERE	VISIAE AND THEIR 1	JSE FOR
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nonprovisional	NO	\$1440	\$300		\$0	\$1740	08/21/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS				
JOIKE, MI	CHELE K	1636	435-006000				
 Change of correspondence address or indication of "Fee Address" (3° CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. 			(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to				
recordation as set forth (A) NAME OF ASSIC	ess an assignee is ident n in 37 CFR 3.11. Comp GNEE	ified below, no assignee bletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (C	ne pa gan a	tent. If an assignee assignment. and STATE OR COU	UNTRY)	document has been filed for
Please check the appropri	ate assignee category or	categories (will not be p	rinted on the patent):		Individual 🖵 Corpo	oration or other private gr	oup entity Government
4a. The following fee(s) a	are submitted:	4			se first reapply any p	previously paid issue fee	shown above)
☐ Issue Fee☐ Publication Fee (No small entity discount permitted)		permitted)	☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached.				
	of Copies		The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Stat	tus (from status indicated			_		ENTITY status. See 37 C	,
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark					he assignee or other party in
Typed or printed name	e				Registration No.		
an application Confident	iality is governed by 35 I application form to the ons for reducing this bui irginia 22313-1450. DC	U.S.C. 122 and 37 CFR	1.14 This collection is	s esti	mated to take 12 min	uites to complete includi	d by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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MDIP LLC			JOIKE, MI	CHELE K
POST OFFICE BO		2.00	ART UNIT	PAPER NUMBER
MONTGOMERY	VILLAGE, MD 20886	-2630	1636	
			DATE MAILED: 05/21/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No.	Applicant(s)	
09/758.036	LEBERER ET AL.	
Examiner	Art Unit	
MICHELE K. JOIKE	1636	
(OR REMAINS) CLOSED in or other appropriate commun	th the correspondence address this application. If not included nication will be mailed in due course. THIS ubject to withdrawal from issue at the initiative	
nder 35 U.S.C. § 119(a)-(d) o		
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cuments have been received	in this national stage application from the	
MENT of this application.	a reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient.	
st be submitted.		
	(PTO-948) attached	
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s Amendment / Comment or	in the Office action of e drawings in the front (not the back) of	
the header according to 37 CFF		
osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
5 □ Notice of Info	ormal Patent Application	
Paper No./N	Mail Date Amendment/Comment	
	Statement of Reasons for Allowance	
9. 🔲 Other		
	ears on the cover sheet with (OR REMAINS) CLOSED in or other appropriate communities. This application is substituted and MPEP 1308. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application for this communication to file of this communication. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application for this application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Inder 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application have been received in Application. Index 35 U.S.C. § 119(a)-(d) or elements have been received in Application have been r	

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The art does not teach the triple mutant TRK1, TRK2, and TOK1 *S. cerevisiae* strain with a mutated Kv1.5 human potassium channel. It had been shown in the art that human potassium ion channels HERG1 and Kv1.5 were unable to complement the *trk1-trk2-* strain, therefore it is unpredictable how a mutant Kv1.5 would affect the TRK1, TRK2, and TOK1 triple mutant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELE K. JOIKE whose telephone number is (571)272-5915. The examiner can normally be reached on M-F, 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on 571-272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1636

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Michele K Joike, Ph.D. Examiner Art Unit 1636

/David Guzo/ Primary Examiner Art Unit 1636